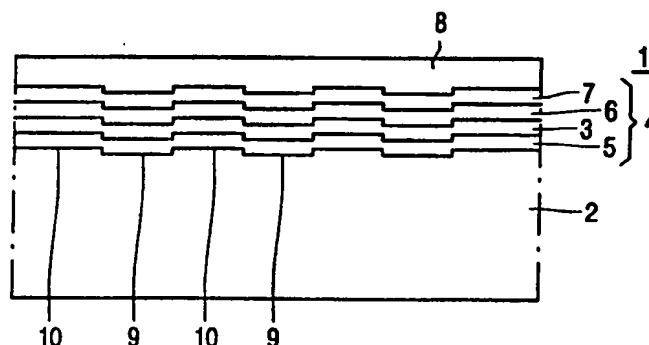




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(54) Title: OPTICAL RECORDING MEDIUM



(57) Abstract

An optical recording medium is described having a grooved recording layer. The structure of unwritten tracks must enable a scanning device to derive a radial tracking error signal according to the push-pull method. The structure of the written tracks must enable the scanning device to derive a radial tracking error signal according to the high-frequency phase-detection method. To this end the width and depth of the groove are in the range from 0.3 to 0.6 times the wavelength over the numerical aperture of the radiation beam used for scanning the recording medium, and from 1/24 to 1/7 times the wavelength over the refractive index, respectively. The phase difference between the radiation beam reflected from a region on track in between written marks and from a mark is in the range from 0.4 to 2.0 radians.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 99/00958

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G11B 7/24, G11B 7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G11B

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5581539 A (MICHIKAZU HORIE ET AL), 3 December 1996 (03.12.96), see whole document --	1-10
A	US 5493561 A (KENICHI NISHIUCHI ET AL), 20 February 1996 (20.02.96) --	1-10
A	EP 0626679 A2 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.), 30 November 1994 (30.11.94) -- -----	1-10

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Information on patent family members

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